



DOCKET NO.: S1459.70081US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

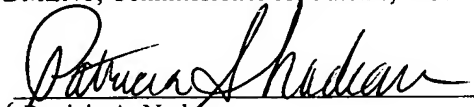
Applicant: Kenichi Ishibashi et al.  
Serial No.: 10/543,050  
Confirmation No.: 2592  
Filed: July 21, 2005  
For: PHOTOELECTRIC CONVERSION DEVICE, ITS  
MANUFACTURING METHOD ELECTRONIC  
APPARATUS ITS MANUFACTURING METHOD,  
SEMICONDUCTOR LAYER, AND ITS  
MANUFACTURING METHOD

Examiner: unknown  
Art Unit: 1745

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 20th day of July, 2006.

  
Patricia A. Nadeau

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**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed before the mailing of a first Office action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant would like to bring to the Examiner's attention the following other information, whose relevance is discussed in Part II below:

PART III: Explanation of References and Remarks Concerning Other Information Cited

The following are remarks concerning the other information cited: The Applicant does not necessarily agree with the substance of the attached e-mail regarding the relevance of the prior art.

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

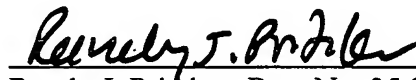
By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

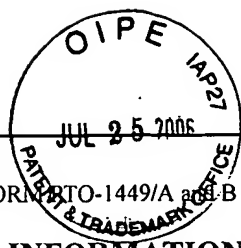
Respectfully submitted,

By:



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Docket No.: S1459.70081US00  
Date: July 20, 2006  
xNDDx



FORM PTO-1449/A and B (modified PTO/SB/08)

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

APPLICATION NO.: 10/543,050      ATTY. DOCKET NO.: S1459.70081US00

FILING DATE: July 21, 2005      CONFIRMATION NO.: 2592

APPLICANT: Kenichi Ishibashi et al.

GROUP ART UNIT: 1745      EXAMINER: unknown

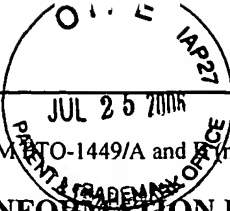
Sheet 1 of 2

## **U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		6,376,765	B1	Wariishi et al.	04-2002
		6,586,670	B2	Yoshikawa, Masaru	07-2003
		6,602,998		Kobuke et al.	08-05-2003
		6,766,817		Elson Silva	07-27-2004
		5,940,550		Plickert et al.	08-17-1999
		6,911,595		Yoshikawa et al.	06-2005
		US2004/0251508	A1	Takashi Tomita	12-16-2004
		US2005/0218467	A1	Takashi Tomita	10-06-2005
		US2006/0048812	A1	Takashi Tomita	03-09-2006
		US2005/0224112	A1	Yuichi Tokita et al.	10-13-2005
		US2006/0084257	A1	Yuichi Tokita	04-20-2006
		US2005/0016578	A1	Masashi Enomoto	01-27-2005
		US2004/0250267	A1	Hideaki Tsutsumi et al.	12-09-2004
		US2004/0202064	A1	Inoue et al.	10-14-2004
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		US2006/0137739	A1	Imoto et al.	06-29-2006
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		US2003/0183271	A1	Ikeda et al.	10-02-2003

## **FOREIGN PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
		Japan	JP10-255863	A		09-25-1998	N
		Japan	JP2001-93591	A		04-06-2001	N
		Japan	JP2000-106222	A		04-11-2000	N
		Japan	JP2002-352870	A		12-06-2002	N
		Japan	JP2002-352869	A		12-06-2002	N
		Japan	JP2002-352868	A		12-06-2002	N
		Japan	JP2002-289274	A		10-04-2002	N
		Japan	JP11-354169	A		12-24-1999	N
		Japan	JP2001-253883	A		09-18-2001	N
		Japan	JP2002-25635	A	Japan Science and Technology Corp.	01-02-2002	N
		Japan	JP2002-8741	A	Fuji Photo Film Co., Ltd.	01-11-2002	N
		Japan	JP2000-285975	A		10-13-2000	N
		Japan	JP2000-195569	A		07-14-2000	N
		Japan	JP2001-143771	A		05-25-2001	N
		Japan	JP2002-222971	A		08-09-2002	N



FORM PTO-1449/A and B (modified PTO/SB/08) <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/542,193		ATTY. DOCKET NO.: S1459.70081US00			
				FILING DATE: July 15, 2005		CONFIRMATION NO.: 2693			
				APPLICANT: Masahiro Morooka					
				GROUP ART UNIT: 1753		EXAMINER: unknown			
Sheet	2	of	2						

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		Europe	EP 1 100 086	A2	Sony Corporation	05-16-2001	
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		Japan	JP2002-353432	A	Fuji Photo Film Co., Ltd.	12-06-2002	

#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		UCHIDA, Satoshi, "Application of Titania Nanotubes to A Dye-Sensitized Solar Cell," Electrochemistry, June 2002, Vol. 70, No. 6, pp. 418-420	
		ADACHI, Motonari, "Dye-Sensitized Solar Cells Using Semiconductor Thin Film Composed of Titania Nanotubes," Electrochemistry, June 2002, Vol. 70, No. 6, pp. 449-452	
		ADACHI, Motonari, "Formation, Characterization, and Functions of Ceramic Nanotubes," Transactions of the Materials Research Society of Japan, September 2002, Vol. 27, No. 3, pp. 505-508	
		NGAMSINLAPASATHIAN, S., "Titania Nanotube o Mochiiru Shikiso Zokan Taiyodenchi no Kokoritsuka," The Society of Chemical Engineers, Japan Dai 35 Kai Shuki Taikai Kenkyu Happyo Koen Yoshishu, August 2002, p. 843	
		NGAMSINLAPASATHIAN, S., "Higher Efficiency in Dye-Sensitized Solar Cells Using Titania Nanotube," 2002 Nen Denki Kagaku Shuki Taikai Koen Yoshishu, September 2002, p. 138	
		ADACHI, M., "Formation of Titanium Oxide Nanotubes and Application to Dye-Sensitized Solar Cells," The Electrochemical Society of Japan Dai 68 Kai Taikai Koen Yoshishu, March 2001, p. 112	
		MURATA, Y., The Synthetic Conditions of Titania Nanotubes Using Template of Molecular Assemblies," CSJ: The Chemical Society of Japan Dai 82 Shuki Nenkai Koen Yokoshu, September 2002, p. 178	
		E-mail from Silva, E ; "US 20060107994 - Requesting IDS of 6,766,817"; May 25, 2006	
		E-mail from Silva, E ; "US 20050016578 - Requesting IDS of 6,766,817"; May 25, 2006	
EXAMINER:			DATE CONSIDERED:

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_, filed \_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]



LTW

Docket No.: S1459.70081US00  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Kenichi Ishibashi et al.  
Serial No.: 10/543050  
Confirmation No.: 2592  
Filed: July 21, 2005  
For: PHOTOELECTRIC CONVERSION ELEMENT AND PROCESS  
FOR FABRICATING THE SAME, ELECTRONIC APPARATUS  
AND PROCESS FOR FABRICATING THE SAME, AND  
SEMICONDUCTOR LAYER AND PROCESS FOR FORMING THE  
SAME  
Examiner: Not Yet Assigned  
Art Unit: 1745

**Certificate of Mailing Under 37 CFR 1.8(a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: July 20, 2006

*Patricia A. Nadeau*  
Patricia A. Nadeau

**TRANSMITTAL LETTER**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed are the following items for filing in connection with the above-referenced Patent Application:

1. Supplemental Information Disclosure Statement;
2. PTO Form 1449; and
3. Copies of cited references.

The Director is hereby authorized to charge any deficiency in the fees filed,

asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 23/2825, under Docket No. S1459.70081US00. A duplicate copy of this paper is enclosed.

Dated: July 20, 2006

Respectfully submitted,

By *Randy J. Pritzker*

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